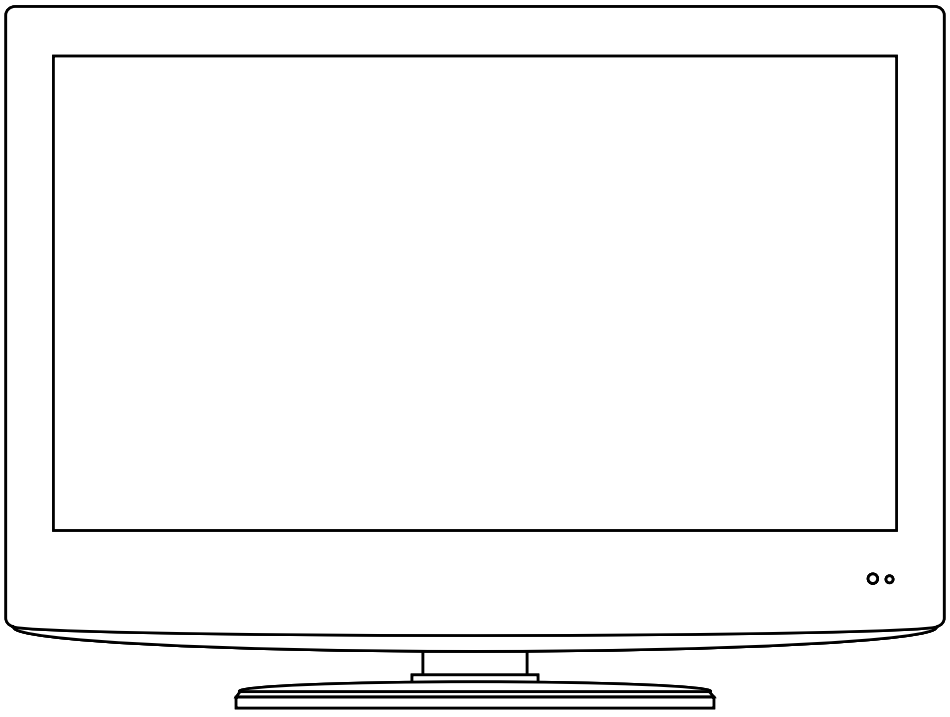
DENVER

24”LCD TV WITH DVB

Model NO.: LED-2451DVBT



Instruction Manual

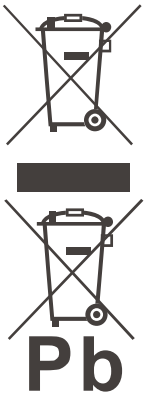
Contents

Caution	**2**
Safety Information	**3**
Introduction	**4-7**
1. Front View	4
2. Rear View	5
3. Remote Control	6-7
Basic Operation	**8**
OSD Menu	**9-17**
1. PICTURE menu	9
2. SOUND menu	10
3. FUNCTION menu	11-12
4. TV menu	11-14
5. DTV menu	15-17
Media operation	**18-19**
Simple Troubleshooting	**20**

Caution

The lightening flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the persons.

The exclamation point within an equilateral triangle is intend to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Correct disposal of this Product
(Waste Electrical & Electronic Equipment (WEEE)
Your product is designed and manufactured with high quality materials and components which can be recycled and reused.
This symbol means that electrical and electronic equipment, at their end-of-life should be disposed of separately from your household waste.
Please dispose of this equipment at your local community waste collection/ recycling centre.
In the European Union there are separate collection systems for used electrical and electronic products. Please help us to conserve the environment we live in!

This unit complies with European safety and electrical interference directives.

Safety Information

To ensure reliable and safe operation of this equipment, please read carefully all the instructions in this user guide, especially the safety information below.

Electrical safety

- The TV set should only be connected to a mains supply which matches that stated on the label on the mains adaptor
- To prevent overload, don't share the same mains supply socket with too many other items of equipment.
  -Do not place any connecting wires where they may be stepped on or tripped over.
  -Do not place heavy items on the leads, which may damage them.
  -Hold the Mains plug, not the wires, when removing from a socket.
  -During a thunderstorm or while leaving the TV for long periods, disconnect the aerial (if outdoor) and mains adaptor from the supply.
  -Do not allow water or moisture to enter the TV or mains adaptor. Do NOT use in wet or moist areas such as Bathrooms, steamy kitchens or near swimming pools.

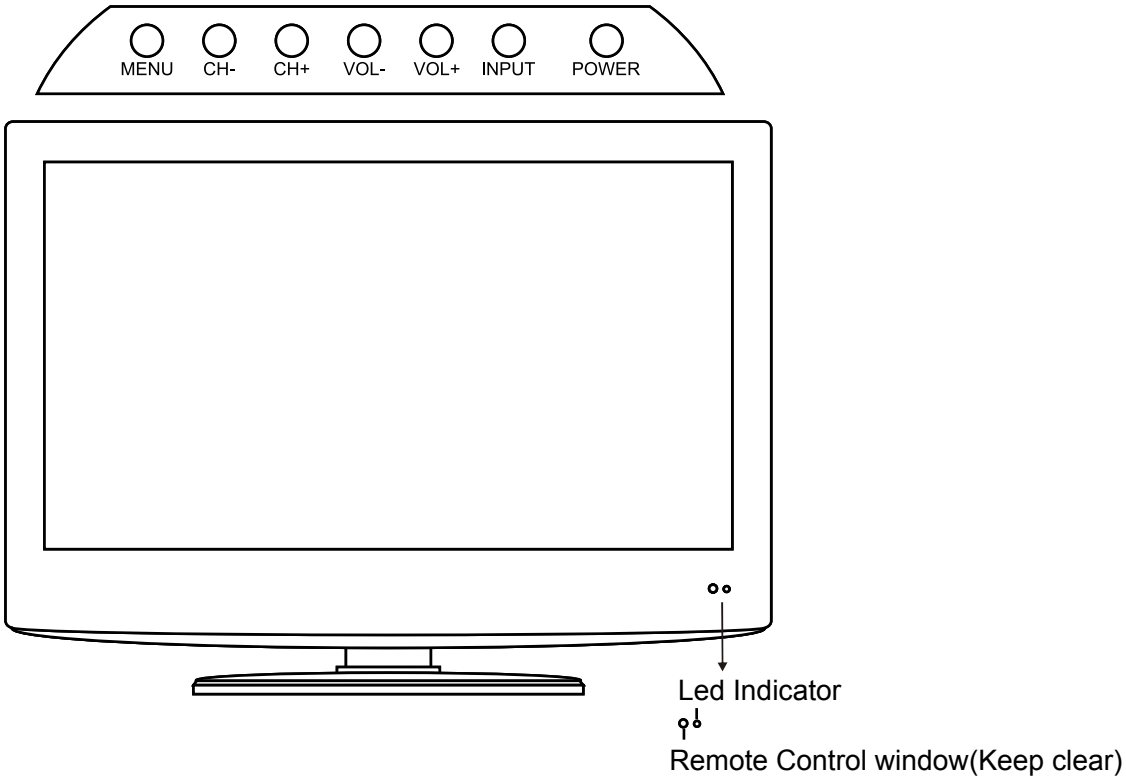
- Pull the plug out immediately, and seek professional help if:
  -the mains plug or cable is damaged
  -liquid is spilt onto the set, or if it is accidentally exposed to water or moisture
  -anything accidentally penetrates the ventilation slots
  -the set does not work normally.
  -Do NOT remove the safety covers. There are no user serviceable parts inside. You may invalidate the warranty. Qualified personnel only are permitted to service this apparatus.
  -To avoid battery leakage, remove exhausted batteries from the remote control handset, or when not using for along period.
  -Do NOT break open or throw exhausted batteries on a fire.

Physical safety

- Do NOT block ventilation slots in the back cover. You may place the TV in a cabinet, but ensure at least 5cm (2") clearance all around the unit.
- Do NOT tap or shake the TV screen, you may damage the internal circuitry. Take good care of the remote control, do not drop it or allow it to come into contact with liquids.
- To clean the TV use a soft dry cloth. Do NOT use solvents or petrol based fluids. For stubborn stains, you may use a damp soft cloth with diluted detergent.

Introduction

1. Front View



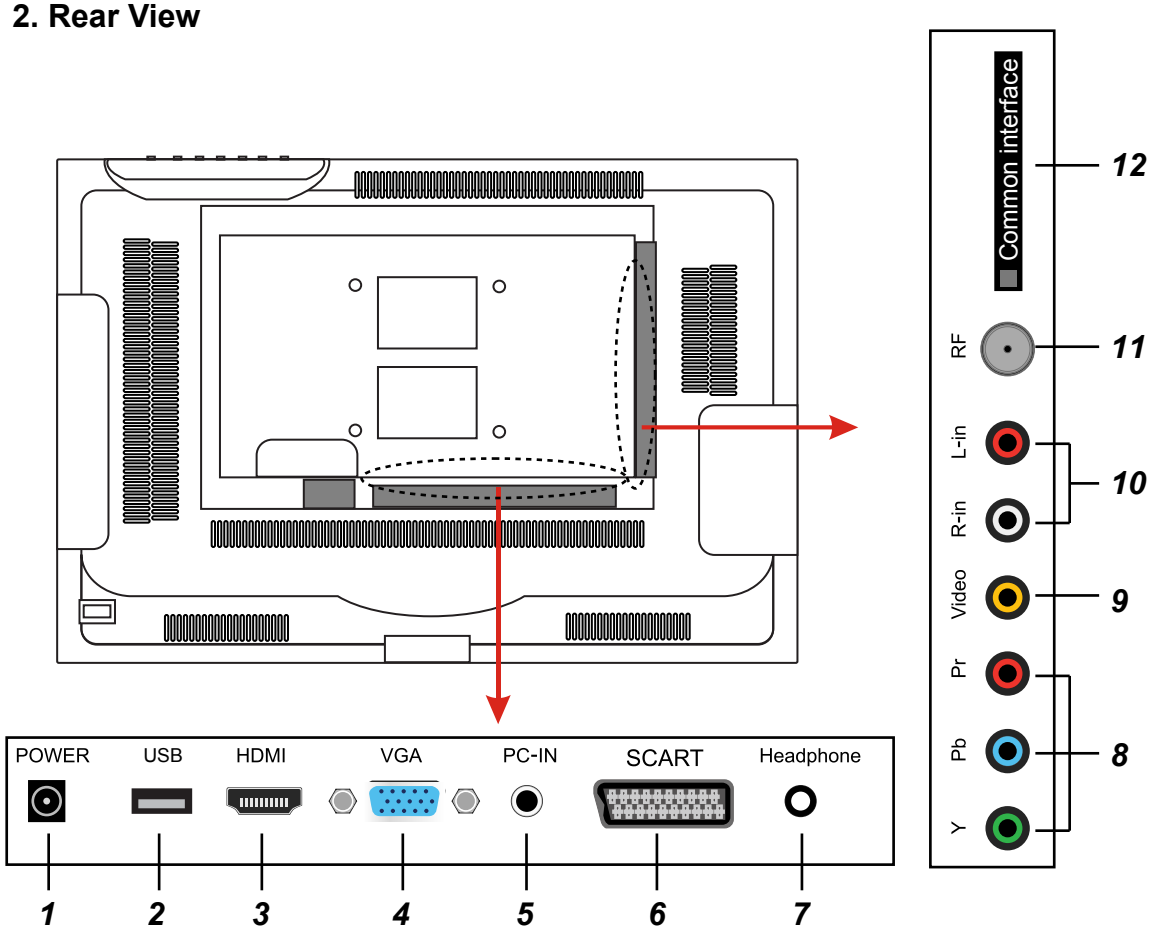
1. (IR) Infrared Receiver: Receives IR signals from the remote control.
   (Power on/Standby)LED Indicator: Press **POWER** to turn on and off.

Indicator on(Red)	Standby mode
Indicator on(Null)	Power on mode

The effective receiving range for the signal is 5-8 metres from the front of the remote control window, and 30^0 to the left or right side and 20^0 above or below the remote control window.

2. The functions of the buttons:
   MENU : Press to display the OSD menu, press again to exit the menu.
   CH+/- : Press to scan through channels.
   VOL+/- : Press to adjust the volume.
   INPUT : Press to display the input source menu.
   POWER : Turn on/standby the TV set.

2. Rear View



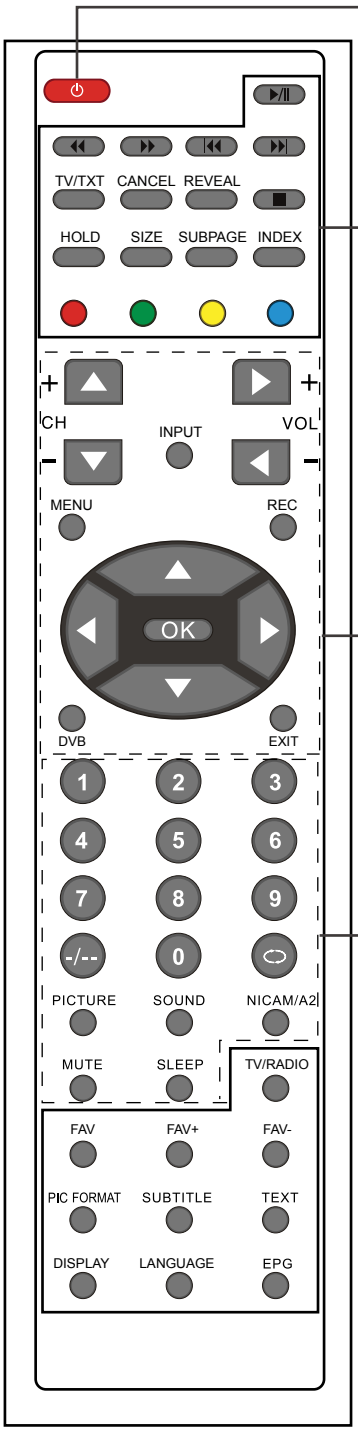
1. **POWER**: Connect to the mains adaptor.
2. **USB**: For software update only.
3. **HDMI**: Connect it to the HDMI of DVD or other equipment.
4. **VGA**: For PC display.Connect it to the D-Sub 15 pins analog output connector of the PC.
5. **PC-IN**: Connect it to the audio output terminal of PC.
6. **SCART**: Connect them to the SCART video output terminal of DVD.(used in component source)
7. **Headphone**: Connect it to your headphone or other audio equipment.
8. **YPbPr**: Connect them to the YPbPr video output terminal of DVD.(used in component source)
9. **VIDEO:** Connect it to video output terminal of DVD.
10. **R/L in:** Connect them to the audio output terminal of DVD.(shared with YPbPr)
11. **RF:** Connect antenna or cable 75 Ohm coaxial to receive TV signal.
12. **Common interface:** CI solt.

Wall Mounting

The TV is provided with mounting holes for a VESA approved wall mounting bracket(NOT SUPPLIED). Remove the Posi screws holding the base to the base bracket and lift the base away (do not remove the base mounting bracket). Mount the VESA bracket using 4 x M4 x10 Iso metric threaded screws (not supplied). Do not use screws longer than 10 mm, damage will occur to the internal parts. Fit the wall bracket securely following the manufacturers instructions.

3. Remote Control

The remote control is using Infra-Red(IR). Point it towards the front of the LCD TV. The remote control may not work correctly if it is operated out of range or out of angle.



POWER(red button): Turn the TV on/standby.

Buttons for TELETEXT operating
You could use the buttons only in TELETEXT .
TV/TXT: Turn off/on the Teletext display.
CANCEL: Cancel the Teletext display.
REVEAL: Reveal any hidden text.
HOLD: Hold or carry on the current subpage.
SIZE: Press to see top half of page double size, Press again to see the bottom half of page double size. Press again for normal size.
SUBPAGE: Press to subpage, again to cancel.
INDEX: Go to index.
Colour buttons: Short cuts-follow the coloured links in the text.

Buttons for Basic operating
MENU: Press to display the OSD menu.
INPUT: Display the input source menu.
CH+/-: Channel/Program +/-.
VOL+/-: Volume +/-.
REC: Press to start record the program in DTV mode.
DVB: Switch to DVB source.
EXIT: Press to exit the OSD menu.
THUMBSTICK(〈 / 〉 / ∧ / ∨ **OK)**: Allows you to navigate the on-screen menus and adjust the system settings to your preference.

Buttons for Basic function
NUMBER BUTTONS: Choose channel directly. Press number buttons and press **OK** button to play the channel.
: Return to the previous channel viewed.
PICTURE: Select the picture mode.
SOUND: Select the sound mode.
NICAM/A2: Selects Nicam or Mono sound.
MUTE: Mutes the Audio.
SLEEP: StandbyTimer

Buttons for Media functions

⏯ : Play/pause.
■ : Stop .
⏪ : Fast reverse.
⏩ : Fast forward.
⏮ : Previous chapter.
⏭ : Next chapter.

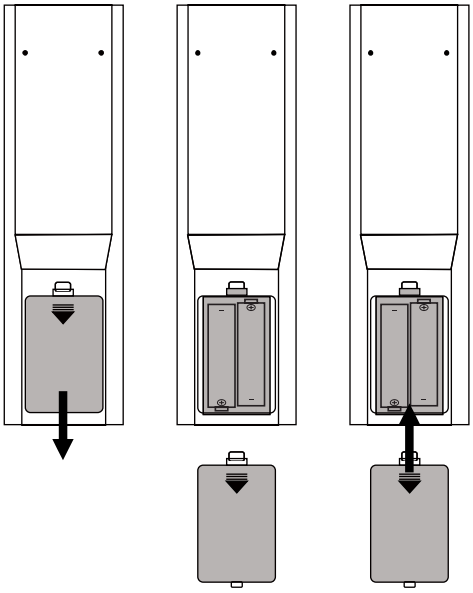
Buttons for DTV operating
TV/RADIO: Disc menu change between DTV and Radio.
FAV: Display the favorite program list.
FAV+/-: Favorite program up/down.
PIC FORMAT: Press to change the display mode of the screen: 4:3, 16:9.etc
SUBTITLE: To switch the dialogue at the bottom of the screen.
TEXT: To view the teletext broadcasting program.
DISPLAY: Display current mode information.
LANGUAGE: To select audio language.
EPG: To show the Electronic Program Guide during no-menu state only.

Installing Batteries

1. Open the battery compartment cover on the back of the remote control.
2. Insert two 1.5V AA size batteries observing the polarity markings inside the battery compartment. Don't mix different types or used batteries with new ones.
3. Close the cover.

Batteries shall not be exposed to excessive heat such as sunshine or fire.

- The remote control should be operated within 30 feet(7m) and 30^0 to the left and right of the IR receive at the front of the LCD TV.
- Used batteries should be disposed properly.



Basic Operation

Power on/off

1. Connect to the power supply with a power code and an adaptor(page 9).
2.-To turn on the TV
Press **POWER** button on the TV or remote control.
-To turn off the TV
Press **POWER** button on the TV or remote control.

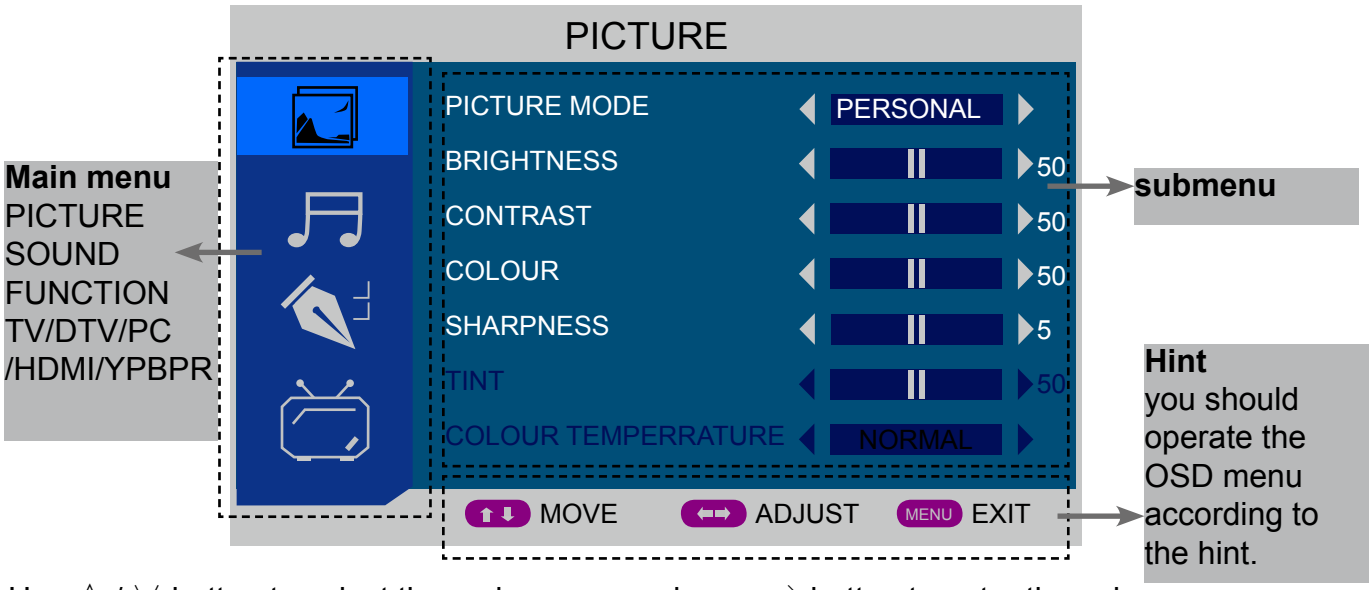
Input Source select

Press **INPUT** button on the TV set or remote control to display the input source menu, and use **CH+/-** button on the TV set or ∧ / ∨ button on remote control to select the input source, press **OK** button on the remote control to enter.

Note: Before you select the input source, make sure the connections are prepared.

Basic OSD Menu operation

Press **MENU** button to display the OSD menu as below:

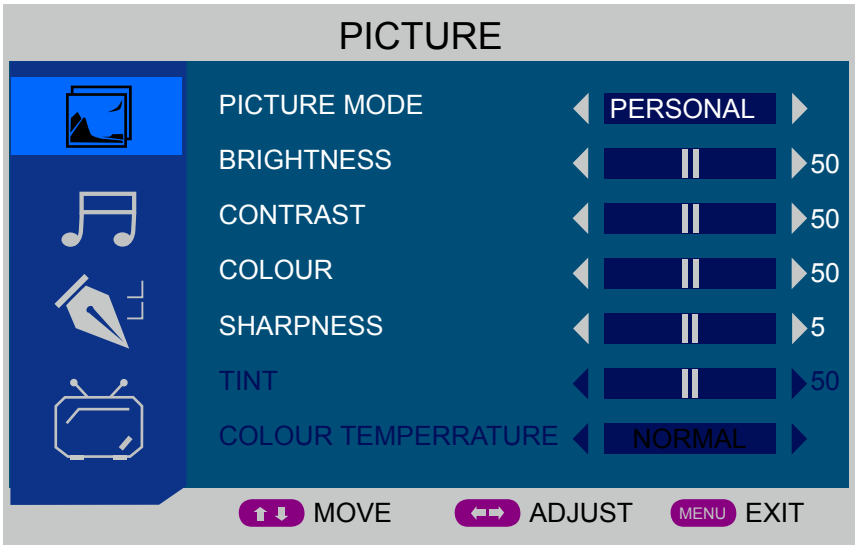


Use ∧ / ∨ button to select the main menu, and press 〉button to enter the submenu.
In the submenu, use ∧ / ∨ button to select the function item, and you could:
adjust ("CONTRAST" item in **Picture** menu for example) with 〈 / 〉button;
select ("PICTURE MODE" item in **Picture** menu for example) with 〈 / 〉button;
enter the submenu ("CHILD LOCK" item in **FUNCTION** menu for example) with 〉/**OK** button.
* (Press MENU button to return to the upper menu.)
* (Press EXIT button to exit the menu display.)

Note1: Only when you input the suitable signal, the relevant items can be activated
Note2: Please operating the OSD menu according to hint on the bottom of the banner.

OSD Menu

1. PICTURE menu(TV mode for example)

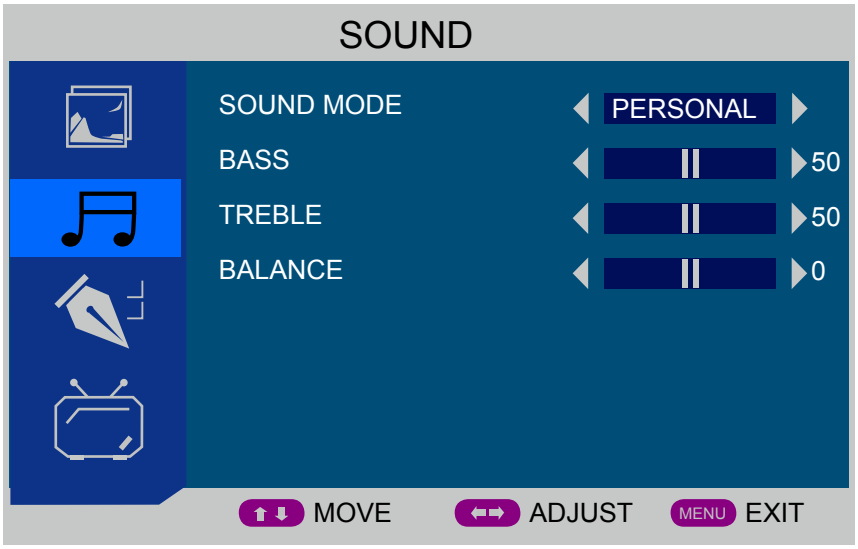


Description

PICTURE MODE: Select between STANDARD, MOVIE, MILD, GAME, PERSONAL.
You may select the picture mode directly by pressing the **PICTURE** button on the remote control.
Personal: You can adjust the Brightness ,Contrast, Colour, Sharpness to your own taste.
Standard: A normal use mode which usually used in a unchangeable light environment.
Movie: This mode is better used in a dark environment. The brightness is higher than other modes.
Mild: This mode is better used in a place which is bright ,the brightness ,colour and sharpness are lower than those of other modes .
Game: Usually used when you play games ,the brightness is just lower than that of MOVIE mode.
Note: If you change the value of Contrast, Brightness, Colour, Tint , Sharpness or Colour temperature on the picture menu, the picture mode will be changed to "Personal" automatically.

BRIGHTNESS: Adjust brightness of the picture.
CONTRAST: Control the difference between the bright and dark regions of the screen picture.
COLOUR: Adjust color of the picture(Could not used in PC mode).
SHARPNESS: Set the amount of fine detail in the picture(Could not used in PC mode).
TINE: Control the fresh tones to make them appear natural(Used in NTSC mode only).
COLOUR TEMPERATURE: select between Normal, Cool and Warm(Used in PC mode only).

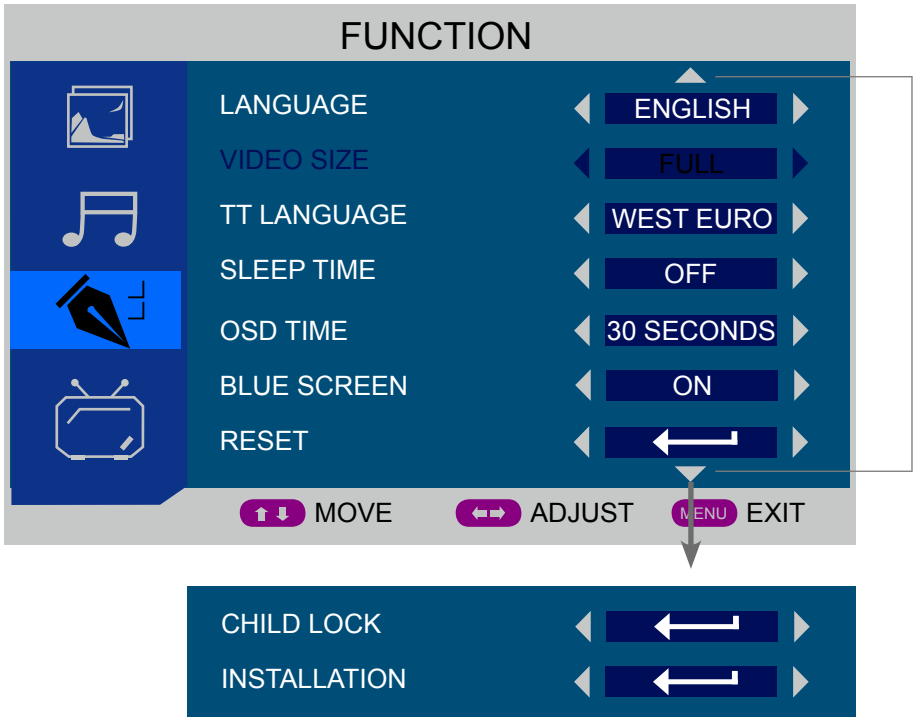
2. SOUND menu(TV mode for example)



Description

SOUND MODE: Select between: STANDARD, MUSIC, VOICE, THEATRE, PERSONAL. You may select the sound mode directly by pressing the **SOUND** button on the remote control.
BASS: Low frequencies intensity.
TREBLE: High frequencies intensity.
BALANCE: Left and right stereo audio channels balance.

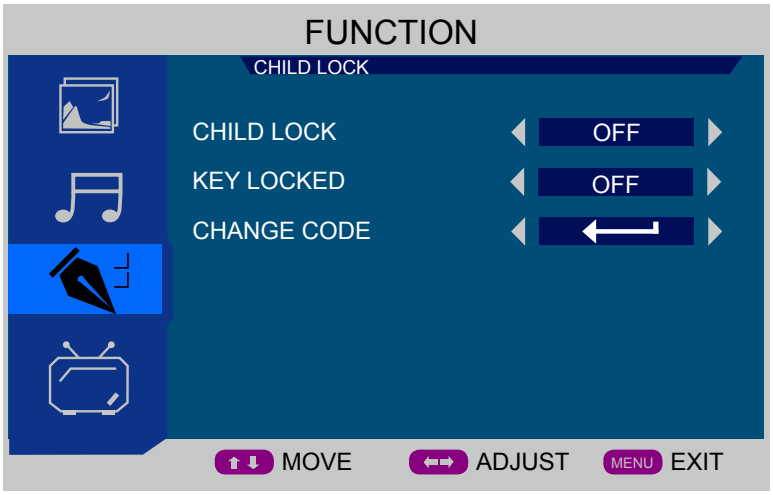
3. FUNCTION menu(TV mode for example)



Press ∧ / ∨ button to display the items hidden.

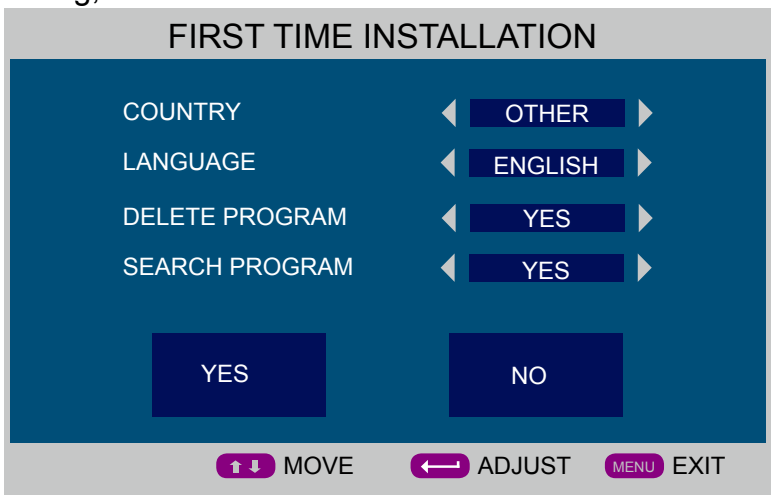
Description

LANGUAGE: Select the OSD language.
VIDEO SIZE: Select screen size between FULL, 4:3,or AUTO(Auto could be select only in SCART mode).
TT LANGUAGE: Select TEXT language(Used in TV mode only).
SLEEP TIME: Select the time for auto shutting down the TV, or turn off the function.
OSD TIME: Select time for OSD displaying on the screen.
BLUE SCREEN: Turn on/off the blue screen function when there's no signal.
RESET: Reset all the settings above by pressing **>** button on the item.
CHILD LOCK: Enter the CHILD LOCK menu by pressing **>** button on the item.

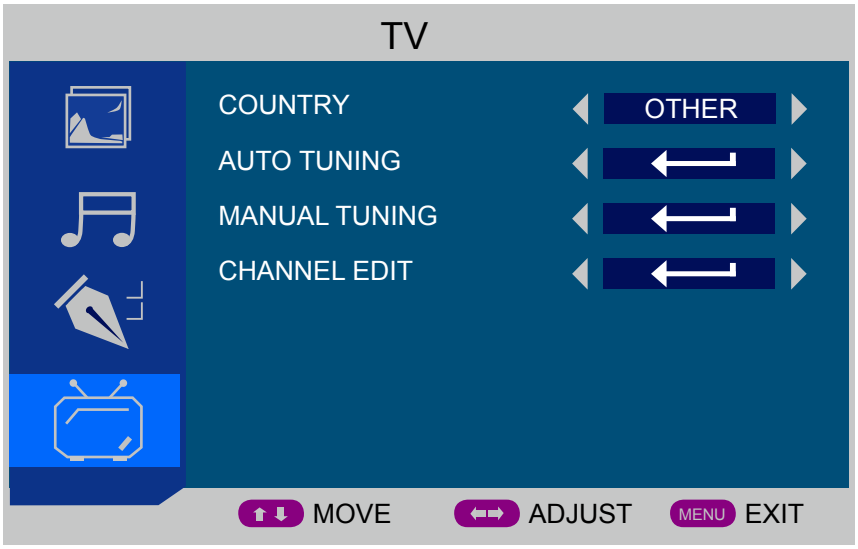


CHILD LOCK: Turn on/off the function.
KEY LOCKED: Lock the buttons' function on the TV by turning on the function.
CHANGE CODE: Enter the CHANGE CODE menu by pressing **>** button on the item, and change the password(the original code is 0000).

INSTALLATION: Enter the FIRST TIME INSTALLATION menu by pressing **>** button on the item. Change the settings according to your actual conditions, and select "YES" item to start auto tuning, or select "NO" to cancel.

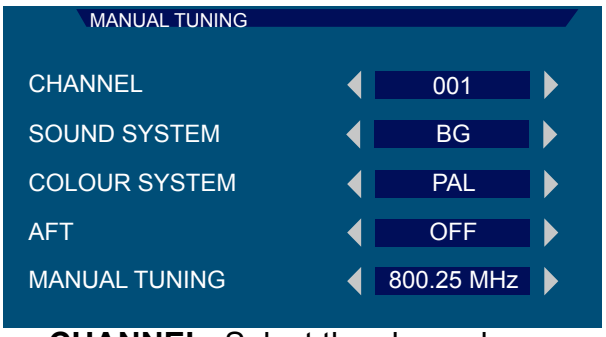


4. TV menu(TV mode)



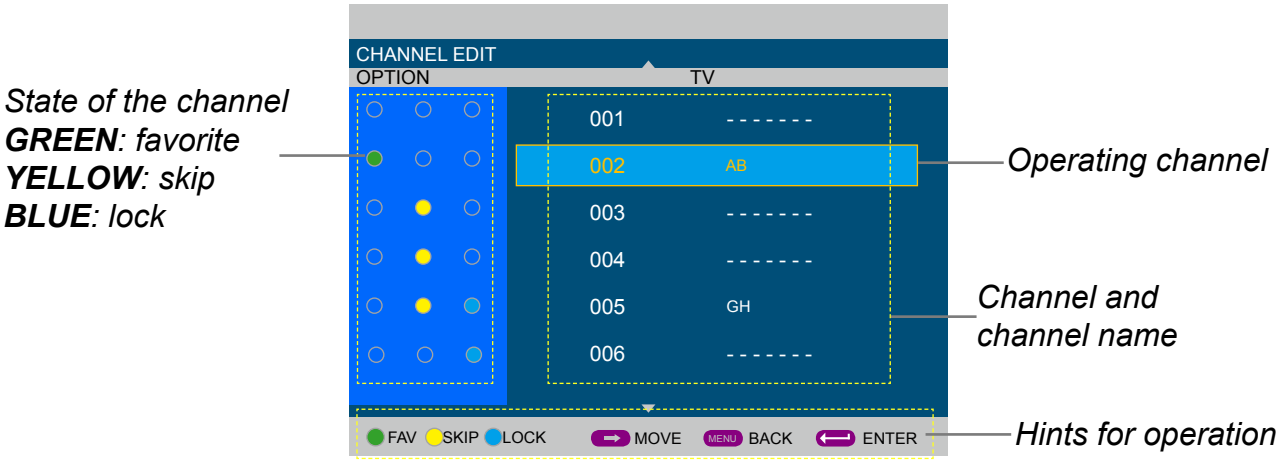
Description

COUNTRY: Select Country for tuning.
AUTO TUNING: Pressing **>** button on the item, then select "YES" and press **OK** button to start auto tuning, or select "NO" to cancel.
MANUAL TUNING: Enter the MANUAL TUNING menu by pressing **>** button on the item.



CHANNEL: Select the channel you want to manual tuning.
SOUND SYSTEM: Select the sound system of the channel you select.
COLOUR SYSTEM: Select the colour system of the channel you select.
AFT: Turn on/off the automatic fine tuning function.
MANUAL TUNING: Manual tuning the Frequency of the channel you select by pressing < / > button.

CHANNEL EDIT: Enter the CHANNEL EDIT menu by pressing **>** button on the item.



***FAV,SKIP,LOCK**: Select the desired channel with ∧ / ∨ button, and operate with **GREEN, YELLOW, BLUE** buttons, press the color button again to cancel the operation.*

FAV: Press **GREEN** button on the remote control to set the channel as favorite channel.

SKIP: Press **YELLOW** button on the remote control to skip the channel.

The channel that is skipped can not be programed when you scan channels with **CH+/-** button.

LOCK: Press **BLUE** button on the remote control to lock the channel.

You have to enter the password to program the channel that is locked.

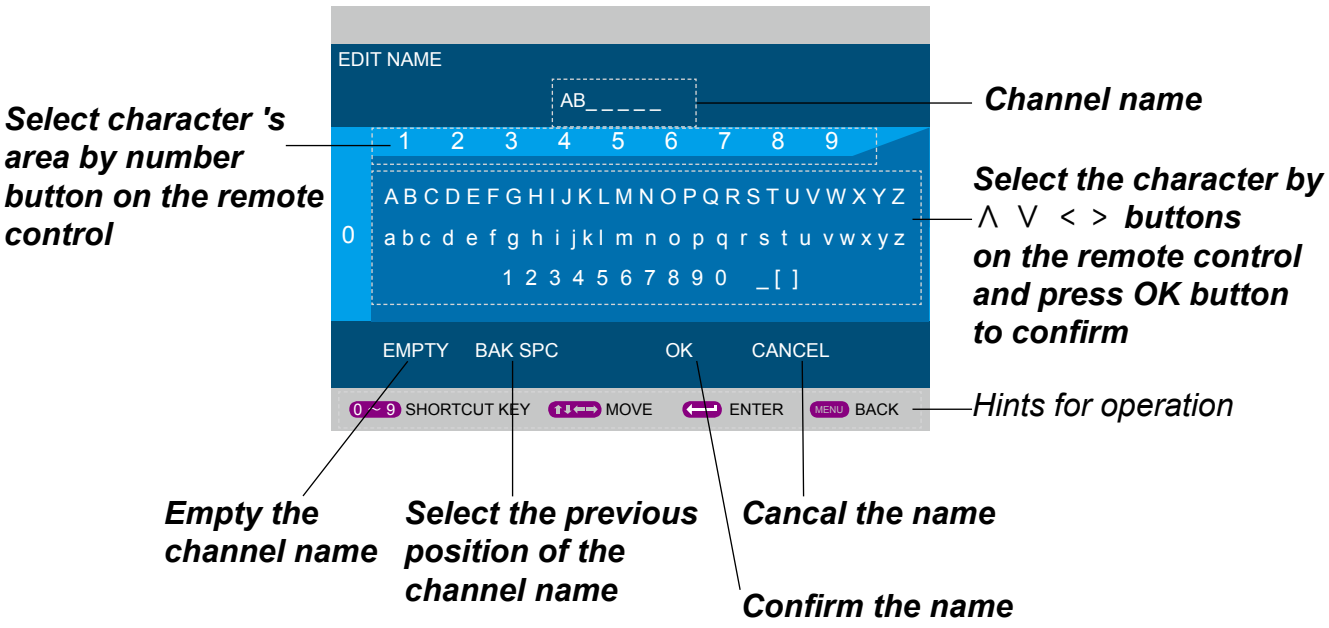
MOVE: Exchange the position of the channel.

Select the channel, and press > button to move,(there will be an arrow after the channel name, you could cancel the operation by pressing **OK** button or select another channel and press > button)

Then select the channel you want to be change to, and press **OK** button to exchange.

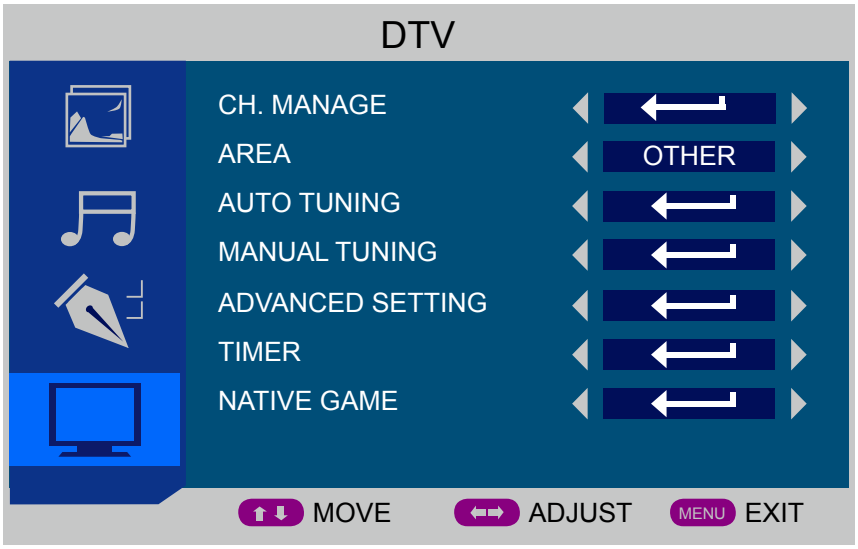
NAME: Name the channel.

Select the channel, and press **OK** button to enter the EDIT NAME menu.


EDIT NAME
AB_ _ _ _ _
1 2 3 4 5 6 7 8 9
0
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 0 _ [ ]
EMPTY
BAK SPC
OK
CANCEL
0 ~ 9 SHORTCUT KEY
MOVE
ENTER
MENU BACK
Channel name
Select character 's area by number button on the remote control
Select the character by ∧ ∨ < > buttons on the remote control and press OK button to confirm
Hints for operation
Empty the channel name
Select the previous position of the channel name
Cancal the name
Confirm the name

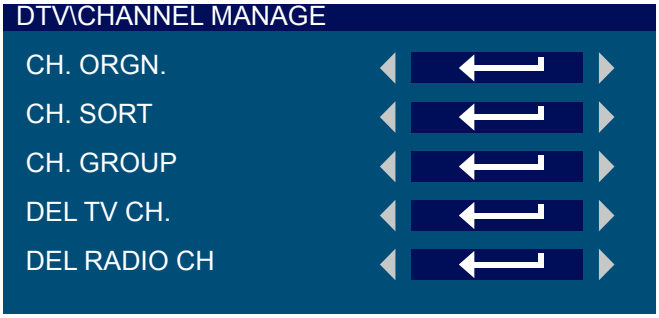
Name the channel acorrding to the hints of picture above, and select "OK" item, press **OK** button to complete.

5. DTV menu(DTV mode)



Description

CH. MANAGE: Enter the CH.MANAGE menu by pressing **>** button on the item.



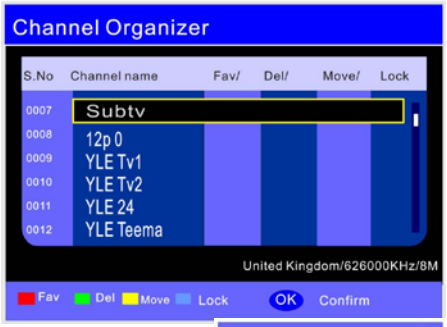
CH. ORGN: Enter the Channel Organizer menu by pressing **>** button on the item.

Fav: Set the favorite channel by **RED** button.

Del: Delete the channel by **GREEN** button.

Move: Press **YELLOW** button to start moving, and press **OK** button to comfirm.

Lock: Lock the channel by **BLUE** button, the locked channel could not be program untill you enter the password.



Press < / > button to set the channel's name

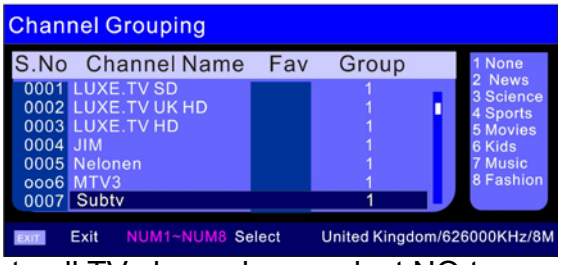
- Press **RED** button to set the input out of number or Capital letters
- Press **YELLOW** button to set the input out of Lowercase letters or Capital letters
- Press **BLUE** button to the next position for your position.
- Press **YELLOW** button to delete the input if you want to delete it.

CH.SORT: Enter the Channel Sorting menu by pressing **>** button on the item.

You could sorting the channels by selecting options.

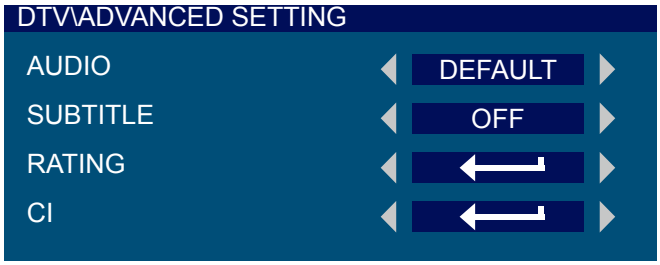
Note: Press RED button to the above page or GREEN button to the bottom page.The bottom page is the list of the channels you have set on the above page.

CH.GROUP: Enter the Channel Grouping menu by pressing **>** button on the item.
You could grouping the channels by selecting the group number (1-8) you can see on the right.



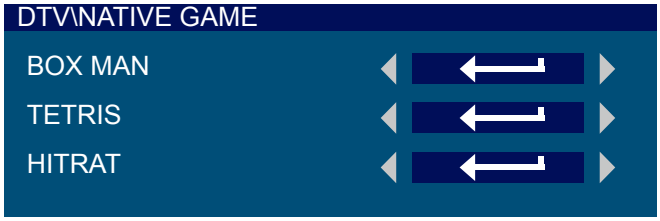
DEL TV CH.: Press OK button and select YES to delete all TV channels, or select NO to cancel.
DEL RADIO CH.: Press OK button and select YES to delete all radio channels, or select NO to cancel.

AREA: Select the suitable area.
AUTO TUNING: Pressing **>** button on the item, then select "YES" and press **OK** button to start auto tuning, or select "NO" to cancel.
MANUAL TUNING: Pressing **>** button on the item, then select "YES" and press **OK** button to enter the Manual Search menu.
In the menu, you can select the channel and press **OK** button to search.
ADVANCED SETTING: Enter the ADVANCED SETTING menu by pressing **>** button on the item.



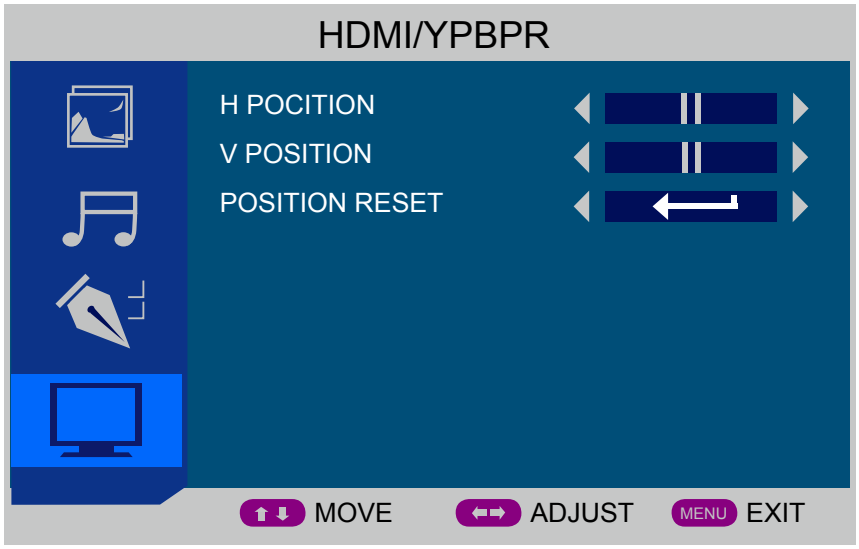
AUDIO: Select the audio language.
SUBTITLE: Select the subtitle language.
RATING: Press **>** button on the item and enter the password to enter the RATING menu. You could select Parental Rating or turn off the function.
CI: Press OK button to enter common interface information.

TIMER: Enter the TIMER menu by pressing **>** button on the item.
You could select the time display mode in the menu.
NATIVE GAME: Enter the NATIVE GAME menu by pressing **>** button on the item.



Press OK button on the item to enter the game.

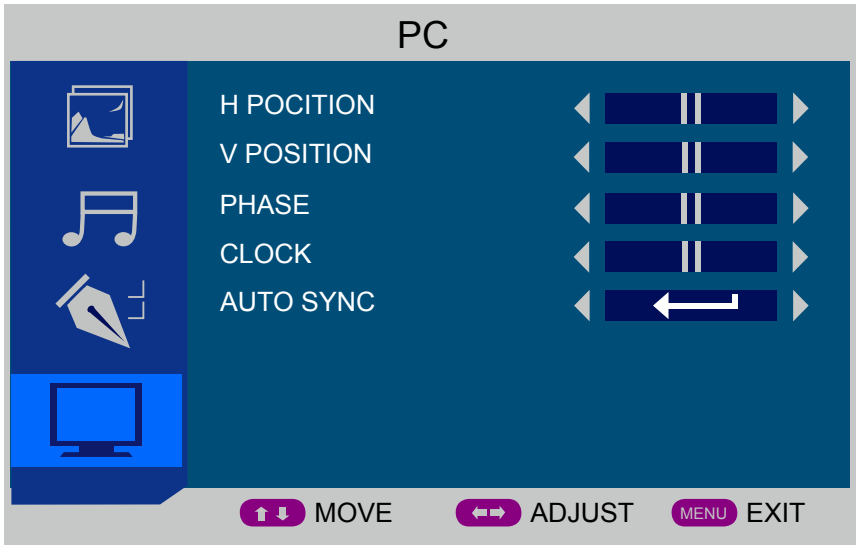
6. HDMI/YPbPr menu(HDMI/YPBPR mode)



Description

H POSITION: Adust the horizon position of the picture.
V POSITION: Adust the vertical position of the picture.
POSITION RESET: Press > button to reset the setings above.

7. PC menu(PC mode)



Description

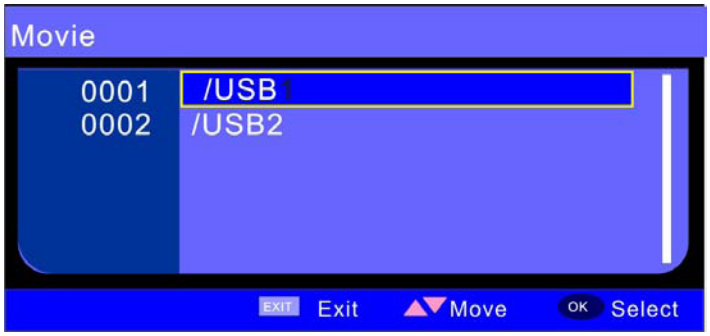
H POSITION: Adust the horizon position of the picture.
V POSITION: Adust the vertical position of the picture.
PHASE: Adjust the picture apply to the LCD(The picture will shake if the PHASE sets unsuitable).
CLOCK: Adjust the signal's transfer speed to make the picture looks well.
POSITION RESET: Press > button to reset the setings above.

Media operation

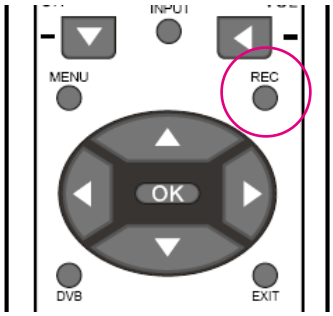
1. Connect the USB device to the USB jact on the back of the TV(page 6),
2. Press **INPUT** button on the TV set or remote control to display the input source menu, and use **CH+/-** button on the TV set or ∧ / ∨ button on remote control to select "MEDIA", press **OK** button on the remote control to enter, and the screen will display as the picture below.

Use < / > button to select between **MOVIE**, **MUSIC**, **PHOTO**. and press **OK** button to enter.

MOVIE/MUSIC/PHOTO menu(MOVIE menu for example)



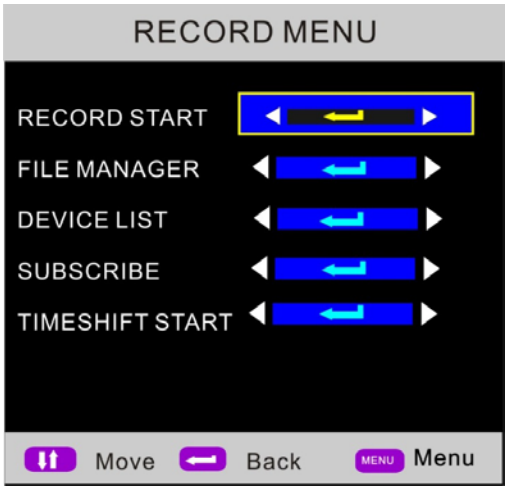
Use ∧ / ∨ button to select and press **OK** button to program.
Press **EXIT** button to back to the previous page.



RECORDER operation

Note: you could record only in the DTV mode.

Press **REC** button on the remote control in DTV mode to enter the RECORD menu.



RECORD START: Press **OK** button on the item to start recording the current playing program. There will be a photo on the left. ■RECORDING

If you want to stop RECORDING, press ■ (STOP) button on the remote control, and it will hint you on the screen, you can select "YES" to stop, or select "NO" to cancel.

FILE MANAGER: Press **OK** button to enter the FILE MANAGE menu.
You can play the file by press **RED** button;
Delete the file by pressing **GREEN** button;
Delete all files by pressing **YELLOW** button;
Press **BLUE** button to zoom the picture or out of ZOOM.

DEVICE LIST: Press **OK** button to enter the DEVICE LIST menu to see the device information.

SUBSCRIBE: Press **OK** button to enter the WAKEUP TIMER menu to set the Wakeup Timer.
1. Select the channel group from the tabel;
2. Select the Timer Mode for recording;
3. Select the wakeup channel as you like;
4. Set the date for TV wake up;
5. Set the time for TV wake up and start recording;
6. Set the time for the recording standing.

TIMESHIFT START
When you have to leave and want to watch the program below, you may use the timeshift function.
Press **OK** button on the item, select "YES" to enter the TIMESHIFT mode(there will a table on the left-top screen to hint).
Press ⏯ (PLAY/PAUSE) button to start buffering, and the picture will stop;
- Press ⏯ (PLAY/PAUSE) button to continue, and it will move at the picture you stopped, you could use ⏪ ⏩ ⏯ buttons to operate.
- Press ■ (STOP) button and select "YES" to cancel timeshifting, and it will display the current program.

Simple Troubleshooting

If the display fails or performance dramatically deteriorates check the Display in accordance with the following instructions.Remember to check the peripherals topinpiont the source of the failure.
If the display still fails to perform as expected,connect your helpline for assistance.

No power
- Check all connections to the TV.
- Press either the power button or the Standby button on the Remote control.

No picture or sound
- Ensure that the TV is plugged in and the power is on.
- Ensure that the aerial is connected.
- Try a different programme.

Poor picture quality
- Check the aerial connections.
- Check that the channel is tuned in properly.
- Adjust the picture settings:brightness,colour,sharpness,contrast,hue.
- Make sure that the TV is not located close to electrical appliances that may emit radio frequency interference.

No colour
- Adjust the colour setting.
- Check that the programme is broadcast in colour.
- Check that the cannel is tuned properly.

TV does not respond to remote control
- Check that there are no obstructions between the remote control and the unit.
- Check that the remote control is within range of the unit.
- Check that the batteries in the remote control and not weak or exhausted.

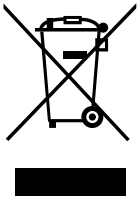
This LCD TV is for household use and registered as harmless on electromagnetic waves. Therefor,you can use it in every location as well as residential areas.

Electric and electronic equipment and included batteries contains materials, components and substances that can be hazardous to your health and the environment, if the waste material (discarded electric and electronic equipment and batteries) is not handled correctly.

Electric and electronic equipment and batteries is marked with the crossed out trash can symbol, seen below. This symbol signifies that electric and electronic equipment and batteries should not be disposed of with other household waste, but should be disposed of separately.

As the end user it is important that you submit your used batteries to the approriate and designated facility. In this manner you make sure that the batteries are recycled in accordance with legislature and will not harm the environment.

All cities have established collection points, where electric and electronic equipment and batteries can either be submitted free of charge at recycling stations and other collection sites, or be collected from the households. Additional information is available at the technical department of your city.



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